ABSTRACT

The invention provides a translucent glazing panel comprising: (a) a thermoplastic panel comprising (i) an outer wall having an inner surface defining an internal channel, the internal channel having an internal volume, and (ii) at least one inner wall protruding from the inner surface into the internal channel, and (b) hydrophobic aerogel particles, the hydrophobic aerogel particles being disposed within the channel. The invention also provides an insulated glazing system comprising: (a) a first U-shaped element, (b) a second U-shaped element, the first and second elements being disposed to define a cavity therebetween, and (c) an insulating panel disposed within the cavity. The insulated glazing system can further comprise hydrophobic aerogel particles disposed within the internal channel of the insulating panel. The insulating panel of the glazing system also can be the same as the translucent glazing panel described herein.